

NWS FORM E-19 (COVER)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

REPORT ON RIVER GAGE STATION

REVISED, PRINTED DATES: 04/08/2010, 08/22/2010

LOCATION: KEARNEY
STREAM: PLATTE RIVER
BASIN: PLATTE 9

HSA: GID

REFERENCES:

USGS FORM 9-197 - DEC 1984
USGS STATION DESCRIPTION - 4/28/99
USGS STATION DESCRIPTION - 6/8/2004
WATER RESOURCE DATA OF NE - USGS

ABBREVIATIONS:

BM	- bench mark	EPA	- Environmental Protection Agency
DS	- downstream	IBWC	- International Boundary and Water Comm.
US	- upstream	MSRC	- Mississippi River Commission
HW	- high water	MORC	- Missouri River Commission
LW	- low water	NOAA	- National Oceanic and Atmospheric Admin.
RB	- right bank	NOS	- National Ocean Survey
LB	- left bank	NWS	- National Weather Service
MGL	- mean gulf level	TVA	- Tennessee Valley Authority
MLW	- mean low water	USACE	- U.S. Army Corps of Engineers
MSL	- mean sea level	USBR	- U.S. Bureau of Reclamation
MLT	- mean low tide	USGS	- U.S. Geological Survey
MT	- mean tide	USWB	- U.S. Weather Bureau
WQ	- water quality	NGVD	- National Geodetic Vertical Datum
RM	- reference mark	NAD	- North American Datum
RP	- reference point		

LOCATION IDENTIFICATION: KEAN1
NWS INDEX NUMBER: 25-4349-5
USGS NUMBER: 06770200

MAP OF GAGE LOCATION

LATITUDE: 40 39 29 SOURCE: USGS
LONGITUDE: 99 05 10

LOCATION: PLATTE RIVER NEAR KEARNEY, NE
ID: KEAN1 HSA: GID

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BENCHMARKS

ELEVATION OF GAGE ZERO: 2134.110 VERTICAL DATUM: NGVD 1929
LEVELING AGENCY AND DATE: 10/3/2008 CHECKBAR: 19.630
RATING AGENCY: USGS

BENCHMARK	DESCRIPTION	GAGE ZERO	DATUM
BM1	BM1 IS TOP OF BRASS CAP (NE DEPT OF HIGHWAYS) ON DOWNSTREAM SIDE OF 4TH PIER FROM RIGHT BANK ELEVATION.	14.520	2148.630
RM2	A CHISELED "+" ON TOP OF RIGHT DOWNSTREAM CONCRETE RAIL GUARD EVEN WITH GAGE HOUSE.	21.631	2155.741
RM4	A CHISELED X ON THE UPSTREAM STREAMWARD GAUGE HOUSE CHANNEL LEG.	17.871	2151.981
RM5	NE DEPT. OF ROADS BRASS CAP LOCATED ON TOP OF SOUTH (RIGHT) UPSTREAM CONCRETE BRIDGE RAIL 1.3 FT FROM END OF RAIL.	20.540	2154.650
RM6	CHISELED "X" IN THIRD I-BEAM FROM SOUTH (RIGHT) DOWNSTREAM CONCRETE BRIDGE RAIL EIGHT FEET DIRECTLY WEST FROM GAGE HOUSE DOOR.	20.287	2154.397

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GAGES

DCP

TELEM

NESS ID: CE656C14
OWNER: USGS
REPORT TIME: 02:4100
INTERVAL: 240

TYPE OF TELEMETRY: dedicated
OWNER: USGS
PHONE NUMBER:
INTERVAL:
PAYOR/COST OF LINE: Unk / \$

GAGE TYPE	OWNER	MAINTENANCE	BEGAN	ENDED	GAGE LOCATION/REMARKS
bubble	USGS	USGS	01/27/1982		STEVENS A-35 WATER-STAGE RECORDER AND SUTRON DCP DRIVEN BY STACOM MANOMETER IN 5FT X 5FT METAL SHELTER.
wireweight	USGS	USGS	01/27/1982		WIRE WEIGHT IS ATTACHED TO THE DOWNSTREAM RAILING OF BRIDGE.
bubble	USGS	USGS	10/29/1985		A SUTRON DCP INSTALLED 10/29/85. CURRENT DCP IS SUTRON 8200A.

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HISTORY

PUBLICATION/LOCATION OF RECORDS	STARTING DATE	ENDING DATE
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WRD NE	01/27/1982	

TYPE OF GAGE	OWNER	STARTING DATE	ENDING DATE
-----	-----	-----	-----
bubble	USGS	01/27/1982	
wireweight	USGS	01/27/1982	
bubble	USGS	10/29/1985	

ZERO ELEVATION	STARTING DATE
-----	-----
2134.110	01/27/1982

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CRESTS

FLOOD STAGE: 6.00 ACTION STAGE: 5.00 BANKFULL STAGE: 6.00
 FLOOD FLOW: 8936 ACTION FLOW: 4596

DATE OF CREST	TIME LST	CREST (ft)	FLOW (CFS)	FROM HIGH WATERMARKS	BASED ON OLD DATUM	CAUSED BY ICE JAM	REMARKS
02/21/1982	UNDEF	3.97	3550				
06/29/1983	UNDEF	7.42	23700				RECORD FLOOD.
06/13/1984	UNDEF	6.64	16100				
02/22/1985	UNDEF	6.57	8100			X	
06/19/1986	UNDEF	4.85	6700				
06/01/1987	UNDEF	4.95	6960				
02/24/1988	UNDEF	4.50	4900				
06/26/1989	UNDEF	5.11	6780				
01/10/1990	UNDEF	4.85	3400				
05/25/1991	UNDEF	4.88	5010				
08/29/1992	UNDEF	4.11	2760				
02/22/1993	UNDEF	6.62				X	BACKWATER FROM ICE.
03/09/1993	UNDEF	5.43	6990				
02/24/1994	UNDEF	8.62				X	BACKWATER FROM ICE.
03/06/1994	UNDEF	4.38	3450				
06/11/1995	UNDEF	7.43	19200				RECORD
09/24/1996	UNDEF	4.68	5010				
06/24/1997	UNDEF	5.85	9590				
04/07/1998	UNDEF	4.92	5170				
05/12/1999	UNDEF	6.51	11900				
10/01/2000	UNDEF	4.43	4100				
04/23/2001	UNDEF	4.13	3320				
04/10/2002	UNDEF	3.67	1910				
04/18/2003	UNDEF	3.54	1570				
03/02/2004	UNDEF	3.69	1470				
12/04/2005	UNDEF	4.97				X	Backwater from ice.
03/22/2006	UNDEF	3.83	1750				
02/25/2007	UNDEF	5.25	5430				
04/25/2007	UNDEF	5.30					
05/24/2008	11:00	7.93	25606				

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LOW WATER RECORDS

DATE OF LOW WATER	STAGE (ft)	FLOW (CFS)	REMARKS
09/07/1990	1.00	3	

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CONDITIONS AFFECTING FLOW

MILES ABOVE MOUTH: 117.0 DRAINAGE AREA: 57260.0 POOL STAGE: 0.0

STREAM BED: COMPOSED MAINLY OF SHIFTING SAND AND GRAVEL.

REACH:

REGULATION: NATURAL FLOW OF STREAM IS AFFECTED BY TRANSMOUNTAIN
DIVERSIONS, STORAGE RESERVOIRS, POWER DEVELOPMENTS,
GROUNDWATER WITHDRAWALS AND DIVERSIONS FOR IRRIGATION.

DIVERSION:

WINTER: CHANNEL SUBJECT TO FREEZING AND ICE JAMS.

TOPOGRAPHY: CHANNEL THROUGH THE BRIDGE REACH IS EXTREMELY WIDE (900 FT)
AND SHALLOW. THE BANKS IN THE AREA ARE LOW AND COVERED
WITH TREES AND VEGETATION. BANK OVERFLOWS SELDOM OCCUR
BECAUSE OF UPSTREAM FLOW REGULATION. MAIN CHANNEL IS
STRAIGHT BOTH US AND DS.

REMARKS: TOPOGRAPHY SECTION (SOUTHWEST QUADRANT FROM GAGE LOCATION IS
A SAND PIT SURROUNDED BY HOMES ON SOUTH THROUGH WEST
QUADRANT.)

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DAMAGE

STAGE	AREAS AFFECTED
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6.00	MINOR OVERFLOWS BEGIN, AFFECTING MAINLY RURAL LOWLANDS.
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RIVER STAGE DATA

6.00 - MINOR OVERFLOWS BEGIN, AFFECTING MAINLY RURAL LOWLANDS.

11-		

10-		

9-		

-----	8.62	02/24/1994

8-		
-----	7.93	05/24/2008

-----	7.43	06/11/1995

7-		

-----	6.64	06/13/1984
-----	6.57	02/22/1985

6-		
-----	5.85	06/24/1997

-----	5.43	03/09/1993
-----	5.30	04/25/2007
5-	5.11	06/26/1989
-----	4.97	12/04/2005
-----	4.68	09/24/1996
-----	4.50	02/24/1988
-----	4.38	03/06/1994
4-	4.13	04/23/2001
-----	3.97	02/21/1982
-----	3.69	03/02/2004
-----	3.54	04/18/2003

3-		

2-		

1-		

REACH:

ELEVATION ZERO: 2134.11

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CONTACTS

SQ	CONTACT/REMARKS	PHONE
1	BUFFALO CO EMERGENCY DIR NO BACKUP OBSERVER TO THE DCP.	308-233-3225
2	USGS NORTH PLATTE OFFICE MAINTENANCE.	308-532-5323

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